Pollution Investigator (ED)



Performance Qualification System (PQS) Workbook



Marine Safety Training Guide

Pollution Investigator

Qualification Code (ED)

This booklet is one section of your personal 'on the job' (OJT) manual. It represents your on-the-job guide to qualification as a Pollution Investigator. Your responsibility for documenting completed unit training items is self-explanatory. For OJT, a person already holding this qualification code (called a verifying officer) is to observe you perform each item and sign in the appropriate space provided in your booklet. It may be necessary to perform a task several times. The verifying officer will not give credit for any task that is not performed satisfactorily.

Multiple verifying officers may make entries in your manual. Every verifying officer must enter his or her name, rate/rank, signature, and initials in the Record of Verifying Officers section.

When you have completed all of the items required by your command for this qualification, your command will issue a letter of designation. Your personnel department ('Admin') will enter the appropriate code in your PDR, to be reflected in your Personal Data Extract (PDE).

Pollution Investigator (ED) Training Requirements:

(Optional items are at the discretion of individual commands)

			Date Completed	Verifying Officer:
A.	Co	mpletion of resident training courses (attach copy of completion	certificates):	
	1.	Entry Level Port Operations Course (ELPOC) Or		
		Marine Science Technician "A" School (MST "A")		
	2.	Initial Indoctrination for Port Operations (IIPO) corresondence course.		
	3.	HMIR or other HAZWOPR equivalent.		
	4.	Oil Spill Control School (optional).		
В.	Co	mpletion of PQS Manual.		
C.	Or	al board (unit level) – Pollution Investigator.		
D.		mpleted package with documentation submitted Fraining Officer/Coordinator for review.		
	All	qualification requirements have been satisfactorily completed.		
		Training Officer/Coor	dinator Dat	e

Record of Verifying Officers:

Date:	Name/Signature:	Initials:	Rate/Rank:

References:

The following references will aid you in completing the majority of tasking in this manual:

- The Marine Safety Manuals, COMDTINST M16000 (series).
- Guidance and Procedures for Administering and Enforcing the Oily Waste Reception Facility Program, COMDTINST M16450.27.
- Civil Penalty Procedures and Administration, COMDTINST 16200.3 (series).
- U. S. Coast Guard Federal On Scene Coordinator (FOSC) Finance and Resource Management Field Guide (FFARM Guide).
- Chemical Hazards Response Information System (CHRIS), COMDTINST M16465.12C.
- The Federal Water Pollution Control Act (FWPCA), as amended.
- The Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), as amended.
- The International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78).
- Refuse Act.
- 29 CFR 1910.120.
- 33 CFR 2, 6, 88, 130, 135, 153, 154, 155, 156, and 160.
- 40 CFR 260-265, 279, 300, 300 App., 302, 310, and 355.
- 49 CFR 172.101 App., 173, 172.6 and 172.7
- U. S. Coast Guard Marine Safety Laboratories "Oil Spill Sample Handling and Transmittal Guide."
- NIOSH Pocket Guide to Chemical Hazards.
- "Threshold Limit Values for Chemical Substances and Physical Agents," ACGIH.
- DOT "Emergency Response Guidebook."

ED Tasks – Authorities and Jurisdiction

	ED Tasks – Authorities and Jurisdiction	on	17
Task No.	OJT Task	Date Completed	Verifying Officer's Initials
ED1.	List the laws applicable to conducting pollution investigations as a member of the Coast Guard.		
ED2.	For each of the laws listed in ED1, state the intent of the law and identify it as either an amendment to an existing law or a primary stature.		
ED3.	Define "harmful quantity" and "reportable quantity" as they apply to oil and hazardous materials under the FWPCA and CERCLA.		
ED4.	Define "Navigable Waterway" and state where the specific navigable waterways of a Captain of the Port jurisdiction would be listed.		
ED5.	Describe the occasions and policies for entry to private property. (MSM Vol. VI)		
ED6.	Identify the jurisdictional limits of the following pollution laws enforced by the Coast Guard:		
	a. Clean Water Act.b. Refuse Act.c. MARPOL 73/78.d. CERCLA.		
ED7.	Describe the effect of a Letter of Undertaking, including when such a document would be executed, what for of surety would be required, and the applicable authority for its issuance.		
ED8.	Describe a Captain of the Port Order, including any limitations on what such an order may require, and the applicable authority for its issuance.		

ED Tasks – Discovery/Notification & Pollution Reporting

	·		Verifying
Task No.	OJT Task	Date Completed	Officer's Initials
ED9.	Describe the types of pollution incidents requiring reports and identify the applicable laws/regulations. (CWA Sections 311(b)(5) & 311(b)(6); Refuse Act; MARPOL 33 CFR 153.201; MSM Vol. V; CERCLA (SARA) Section 103	73/78	
ED10.	List possible sources of pollution reports and means of reporting. (40 CFR 300.125; 40 CFR 300.300; 40 CFR 405)		
ED11.	State the information to be gathered during an initial report of the discovery of a spill or discharge. (MSM Vol V; MARPOL 73/78; COMDTINST M16450.27)		
ED12.	Define the documentation requirements of an initial report of a discharge or release. (MARPOL 73/78; COMDTINST M16450.27; MSM Vol. V)		
ED13.	Describe the importance of the following factors in identifying a potential responsible party for a reported pollution incident:		
	 a. Substance characteristics. b. Physical location. c. Weather conditions. d. Source characteristics. e. Human health and welfare. f. Weathering effects of pollutant. g. Responsible party's history. 		
ED14.	List the possible courses of action upon receipt of an initial report of pollution. (MSM Vol. V; MSM Vol. VI; MARPOL 73/78; COMDTINST M16450.27)		
ED15.	Take two initial reports of pollution incidents and choose the proper courses of action. (Enter each case in the case log at the back of this PQS.)		

ED Tasks – Investigate Pollution Incidents: Evidence

	ED Tasks - Investigate I onution incluents.	viuciice	Verifying
Task No.	OJT Task	Date Completed	Officer's Initials
ED16.	List and describe the rules of evidence as they pertain to pollution investigation (both criminal and civil).		
ED17.	Describe the warnings and notices of rights to witnesses given during a pollution violation. (MSM Vol. V)		
ED18.	Describe the protection afforded to witnesses providing statements in a civil pollution violation case.		
ED19.	Describe each of the following types of information and evidence that could be used in a pollution investigation. Specify what elements should be included in each case.		
	 a. Photographs/video tape. b. Diagrams/charts. c. Statements/interviews. d. Samples, including analysis by the Marine Safety Laboratory. e. Vessel/facility logs. f. Procedures and documents required by regulations. g. Other information and evidence. (MSM Vol. V; MSL Procedures Guide) 		
ED20.	List the elements that comprise an acceptable witness statement for each of the five types.		
ED21.	Describe the procedures for obtaining samples, photographs, and other real evidence, including Chain of Custody requirements. (MSM Vol. V; MARPOL 73/78; COMDTINST M15450.27)		
ED22.	Explain the use and importance of the CG3639A.		
ED23.	List the types of samples necessary to provide the Marine Safety Laboratory with sufficient physical evidence to perform 'fingerprint' identification.		
ED24.	Demonstrate the procedures for gathering necessary information and documentation to support a pollution violation.		
ED25.	Demonstrate the procedures necessary to take valid samples of oil for an analysis (both sheen and heavy concentration).		

ED Tasks – Investigate Pollution Incidents: Civil Penalty Procedures and Administration

Task No.	OJT Task	Date Completed	Verifying Officer's Initials
ED26.	List and describe the elements of a Civil Pollution Violation under the CWA and CERCLA. (MSM Vol. V)		
ED27.	Describe the additional elements for a failure to notify violations. (MSM Vol. V; 33 CFR 153.205; CWA Section 311(b)(5); CERCLA Section 103)		
ED28.	Describe the elements of a Class II Civil Penalty violation		
ED29.	Describe the elements of a Criminal pollution violation.		
ED30.	Describe the elements of a Criminal Refuse Act violation.		
ED31.	Define and describe the differences in the level of proof required for civil and criminal cases.		
ED32.	Define each of the following penalty procedures and list the circumstances in which each might be applied:		
	 a. A local (or "COTP") Letter of Warning b. A COMDT Letter of Warning. c. A Notice of Violation. d. A Report of Violation. 		
ED33.	Given a sample Report of Violation, correctly determine the recommended penalty level using appropriate Commandant and unit instructions.		

ED Tasks – Investigate Pollution Incidents: Marine Safety Information System (MSIS)

	Watthe balety information bystem (W	01 0)	
Task No.	OJT Task	Date Completed	Verifying Officer's Initials
ED34.	Describe what each of the following MSIS product sets are used for:		
	 a. PNEI b. Marine Casualty Product Set c. Marine Violation Product Set d. Notice of Violation Product Set 		
ED35.	Demonstrate the ability to fully complete data entry for a pollution incident for the following MSIS product sets:		
	a. Marine Casualty Product Setb. Marine Violation Product Setc. Notice of Violation Product Set		

ED Tasks – Investigate Pollution Incidents: Case File Preparation

Task No.	OJT Task	Date Completed	Verifying Officer's Initials
ED36.	Outline the required contents of a pollution case file, including the applicable tracking and identification documents and/or labeling to be applied to each.		
ED37.	Describe the correct routing for a completed pollution case file, from the investigator to the final action office.		
ED38.	State the storage and disposal requirements for pollution investigation documents. (MSM Vol. V)		
ED39.	Prepare (from initial investigation through dispatch to the appropriate final authority) at least one of each of the following (ensure that each case is logged in the Incident Investigation Log at the end of this PQS):		
	a. A local (or "COTP") Letter of Warning.b. A Notice of Violation.c. A Report of Violation.		

ED Tasks – Investigate Pollution Incidents: Safety

Task No.	OJT Task	Date Completed	Verifying Officer's Initials
ED40.	Determine the exposure risk of each of the following tasks:		
	 a. Supervision of pollution response. b. Observation of pollution response at a distance. c. Back-up support for a response (on site). d. Direct contact during a response (oil). c. Direct contact during a response (chemical). 		
ED41.	Define the following characteristics which may be considered prior to and during a spill response and investigation:		
ED 40	a. Hazard Class b. Reactivity c. Physical State d. Specific Gravity e. Vapor Density f. Paths (or Routes) of Entry g. TLV/REL/PEL h. STEL i. IDLH j. LC50/LD50 k. Bioaccumulation l. Bio-oxygen Demand m. LEL/UEL & LFL/UFL n. Flash Point o. Vapor Pressure p. Boiling Point q. Benzene r. Hydrogen Sulfide (H2S) s. Polynuclear aromatic hydrocarbons (PAHs) (CHRIS Manual, NIOSH Pocket Guide, ACGIH Pamphlet, DOT Emergency Response Guide)		
ED42.	State and define the maximum level of protection which (by Commandant Policy) may be used during the course of an investigation.		

ED Tasks – Incident Investigation Log

Date	Incident Description	Final case disposition	MSIS Case No.	FPN/ CERCLA No.	Verifying Officer's Initials
				-	
·	_				